

Next Forecast Will Be Issued

25 Sep 2020

Launch Mission Execution Forecast

Mission: Delta IV Heavy L-44

Issued: 24 Sep 2020 / 0800L (1200Z)

Valid: 26 Sep 2020 / DURING WINDOW



Forecast Discussion: Developing southeast flow will bring increasing moisture and humidity today, but precipitation chances remain low. A surge of deep moisture will be drawn over the area tomorrow as the remnants of Beta move into the Southeast US. For MST Roll in the afternoon, scattered showers and isolated thunderstorms are forecast with surface winds out of the southeast between 10 to 15 knots. While most of the precipitation is expected to diminish in the evening, lingering cloud cover from earlier showers and thunderstorms will bring the chance of a Thick Cloud Layer and/or Debris Clouds Rule violation during the launch window early Saturday morning. Ample low-level moisture will linger through the weekend; however, a building mid-level ridge will advect drier air aloft. This, combined with weak steering winds, should reduce afternoon shower and storm coverage near the immediate coast both Saturday and Sunday afternoon. As a result, the chances of weather-related violations decrease in the event of a 24- or 48-hour delay.

uelay.									
	Probability of Violating Weather Constraints								
Day	40% Primary Concerns: Thick Cloud Layer Rule, Debris Clouds Rule								
Launch	Weather Conditions							Additional Risk Criteria	
	Weather/Visibility:		Isolated Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)		
	Temp/Humidity:		80°F / 87%	Cumulus	Scattered	2,500	10,000	Solar Activity:	Low
	Ground Winds (230'):		190° @ 9 - 14 knots	Altostratus	Broken	12,000	16,000		
1	Probability of Violating Weather Constraints								
24-Hour Delay	20%	20% Primary Concerns: Cumulus							
	Weather Conditions							Additional Risk Criteria	
	Weather/Visibility:		None / 7 mi.	Type	Clouds Coverage	Base (ft)	Tops (ft)		
	Temp/Humidity:		78°F / 89%	Cumulus	Scattered	2,500	8,000	Solar Activity:	Low
	Ground Winds (230'):		VRB @ 4 - 9 knots	Altocumulus	Scattered	12,000	16,000		
/	Probability of Violating Weather Constraints								
Delay	20% Primary Concerns: Cumulus Cloud Rule								
ır C	Weather Conditions							Additional Risk Criteria	
48-Hour	Weather/Visibility:		None / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)		
	Temp/Humidity:		79°F / 88%	Cumulus	Scattered	2,500	8,000	Solar Activity:	Low
	Ground Winds (230'):		150° @ 6 - 11 knots	Altocumulus	Scattered	12,000	16,000		
			(POV) is the chance that a Ligi I during the launch window. It o						ds, precipitation, and